10/511759

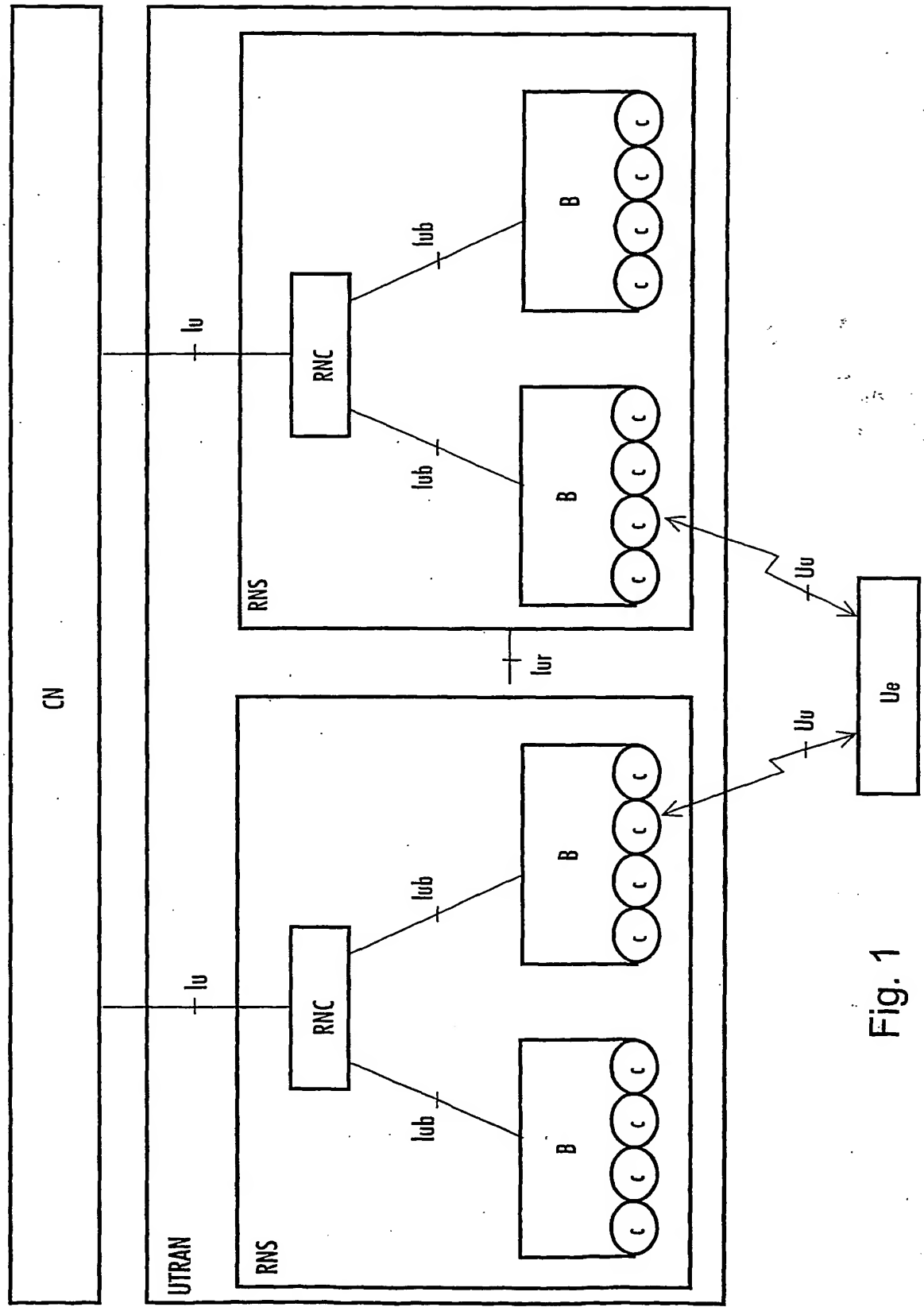


Fig. 1

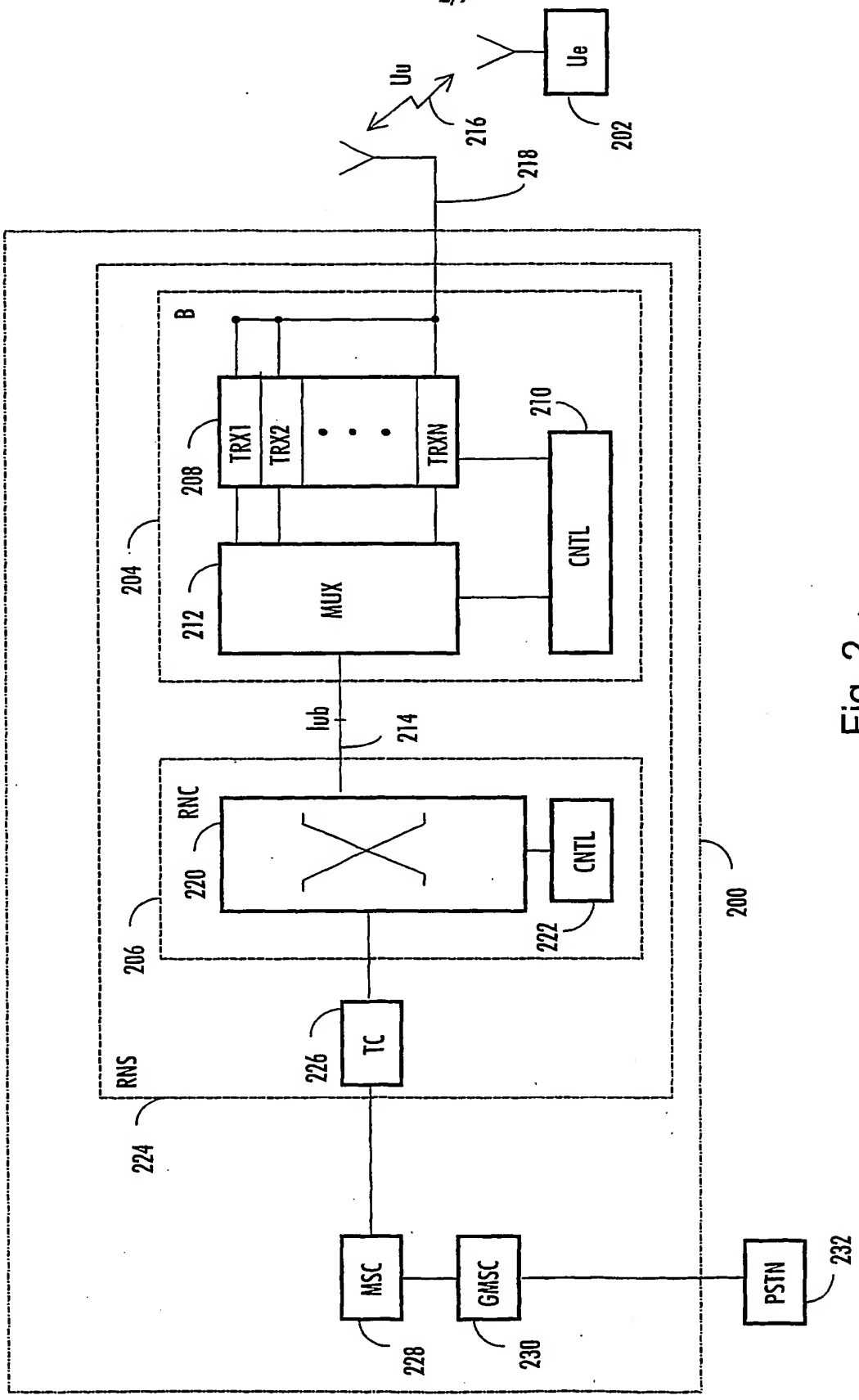
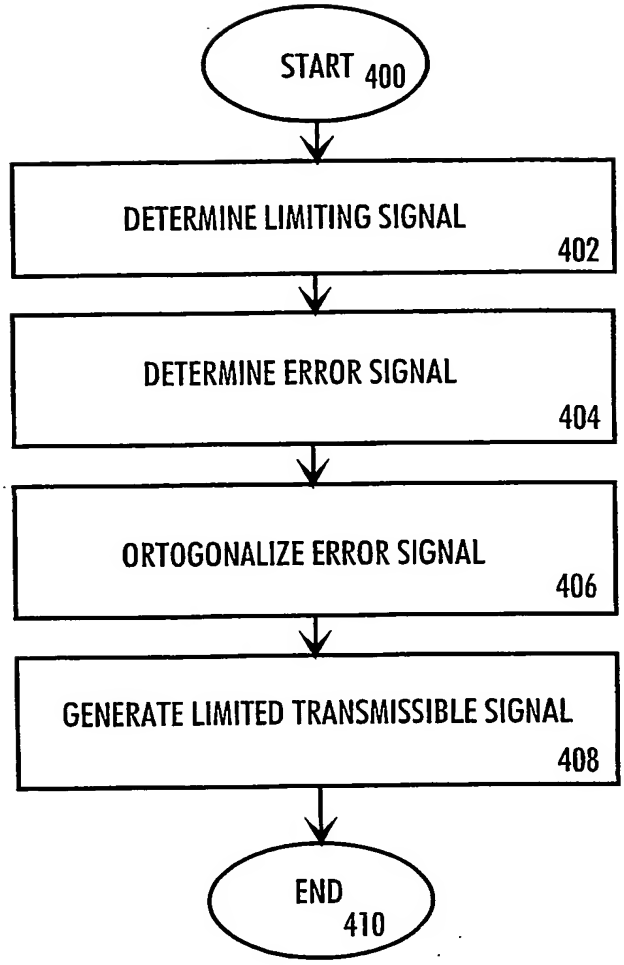

Ue
202
Uu
216
218
B
TRX1
TRX2
TRXN
208
210
CNTL
204
MUX
212
Iub
214
RNC
220
CNTL
222
206
200
TC
226
RNS
224
MSC
GMSC
PSTN
232
228
230

Fig. 2

Fig. 4


START 400
DETERMINE LIMITING SIGNAL 402
DETERMINE ERROR SIGNAL 404
ORTOGONALIZE ERROR SIGNAL 406
GENERATE LIMITED TRANSMISSIBLE SIGNAL 408
END 410

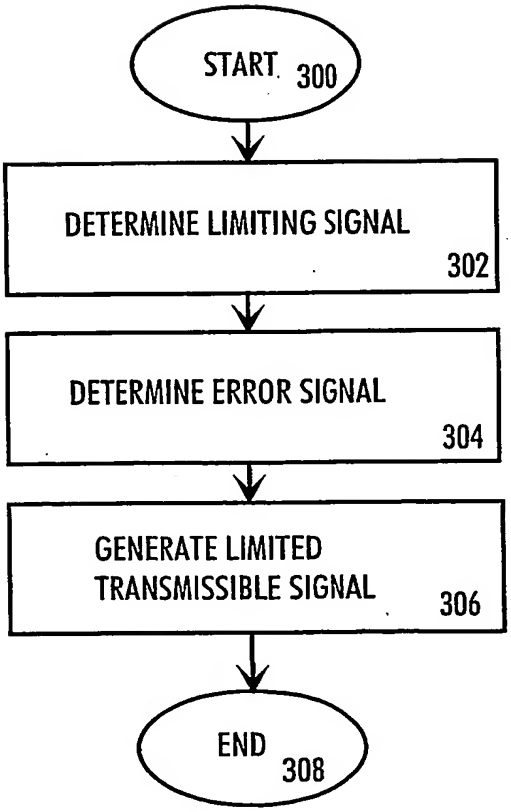

START 300
DETERMINE LIMITING SIGNAL 302
DETERMINE ERROR SIGNAL 304
GENERATE LIMITED TRANSMISSIBLE SIGNAL 306
END 308

Fig. 3

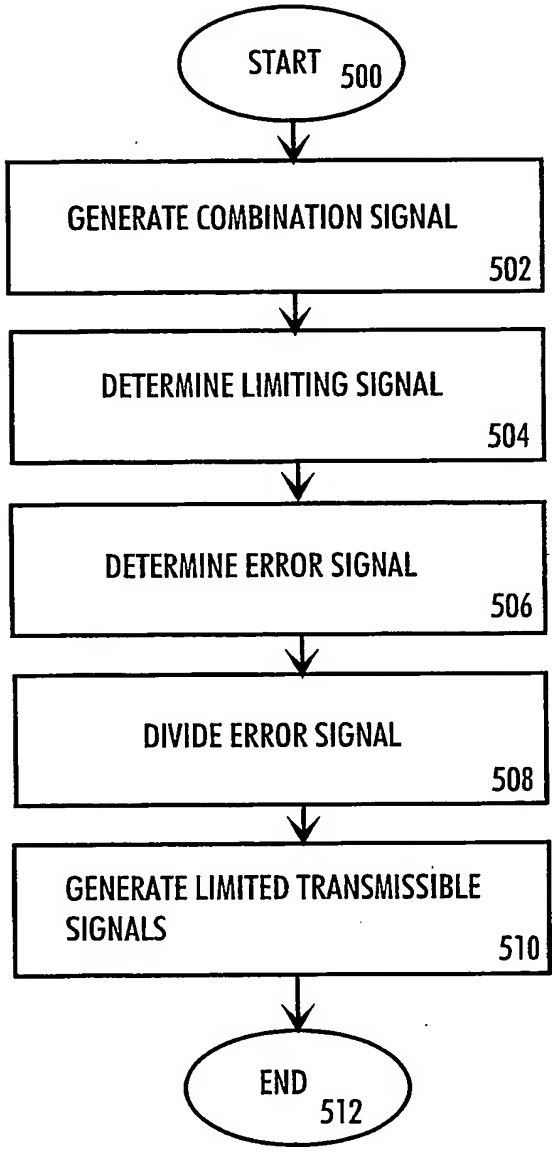

START 500
GENERATE COMBINATION SIGNAL 502
DETERMINE LIMITING SIGNAL 504
DETERMINE ERROR SIGNAL 506
DIVIDE ERROR SIGNAL 508
GENERATE LIMITED TRANSMISSIBLE SIGNALS 510
END 512

Fig. 5

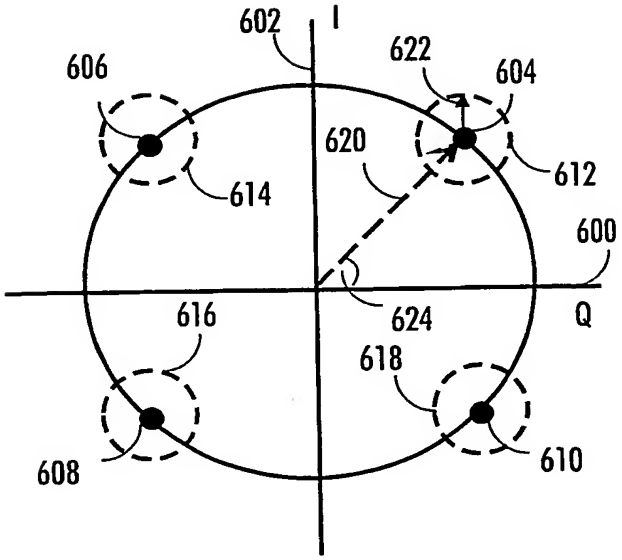


Fig. 6

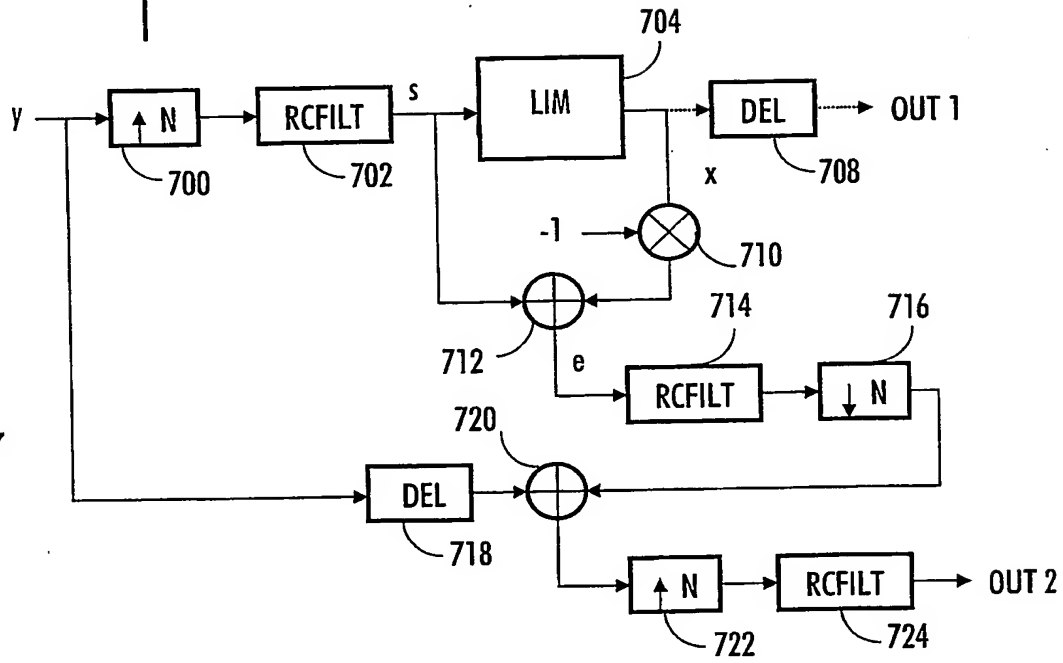


Fig. 7

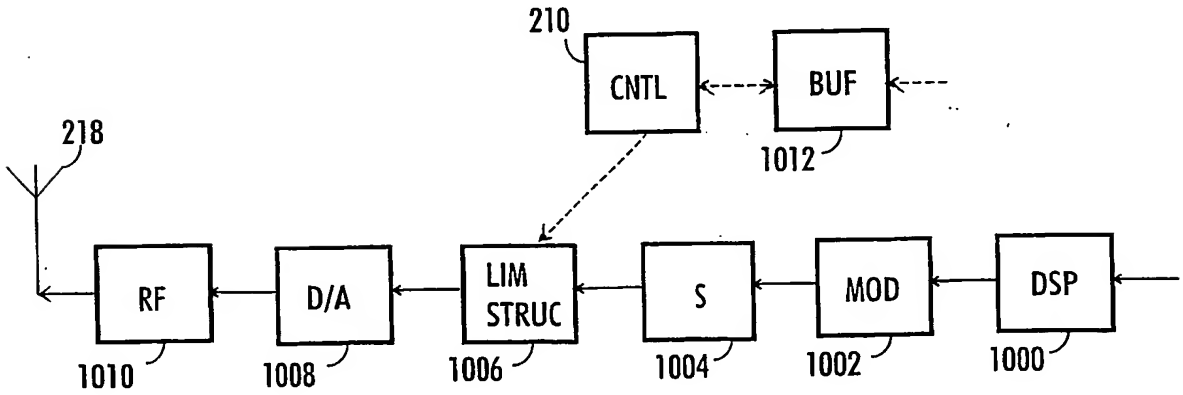


Fig. 10

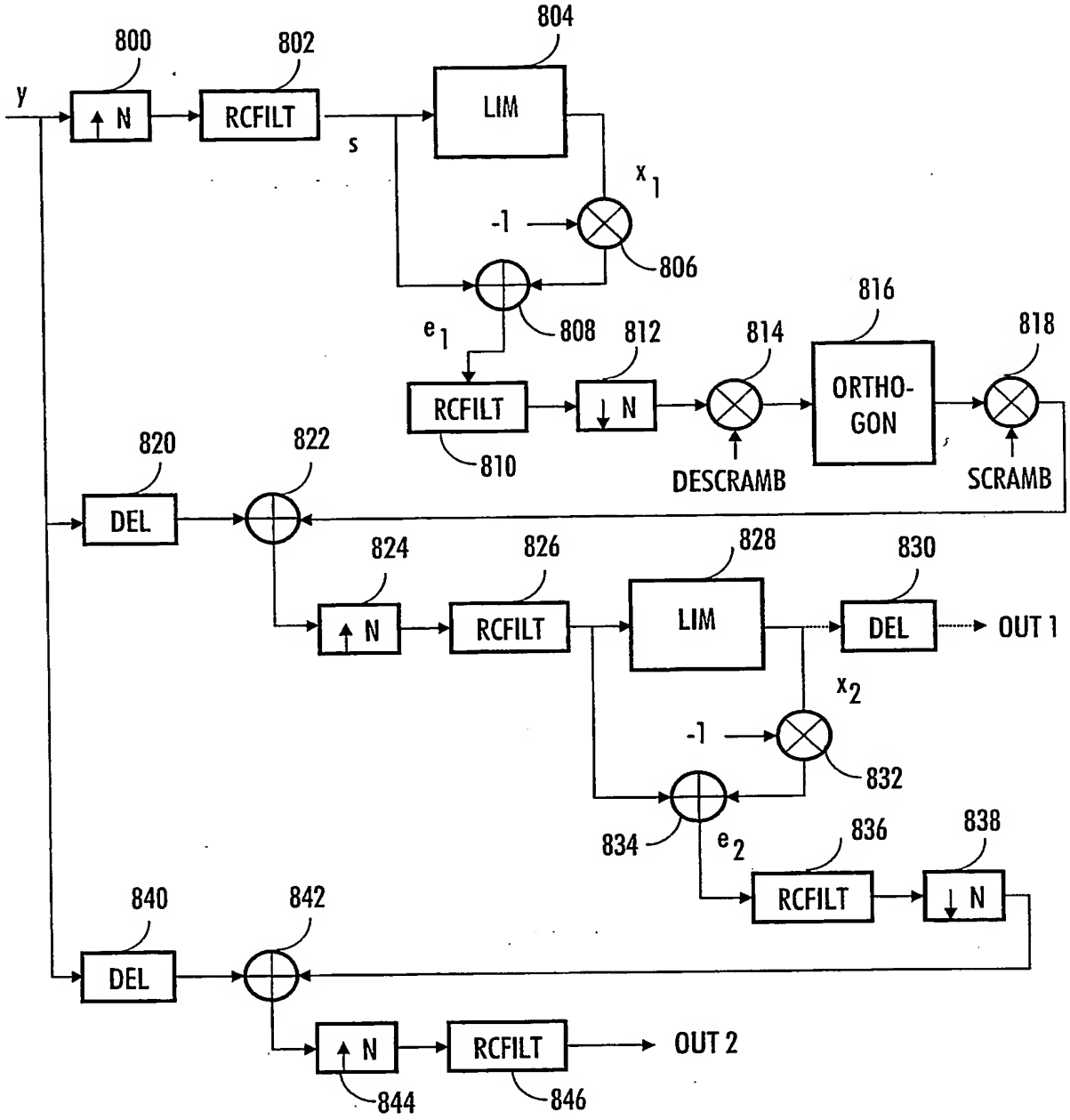

y
800
N
802
RCFILT
s
804
LIM
x1
-1
806
808
e1
RCFILT
810
812
N
814
DESCRAMB
816
ORTHO-
GON
818
SCRAMB
820
DEL
822
824
N
826
RCFILT
828
LIM
830
DEL
OUT 1
x2
-1
832
834
e2
836
RCFILT
838
N
840
DEL
842
N
844
RCFILT
846
OUT 2

Fig. 8

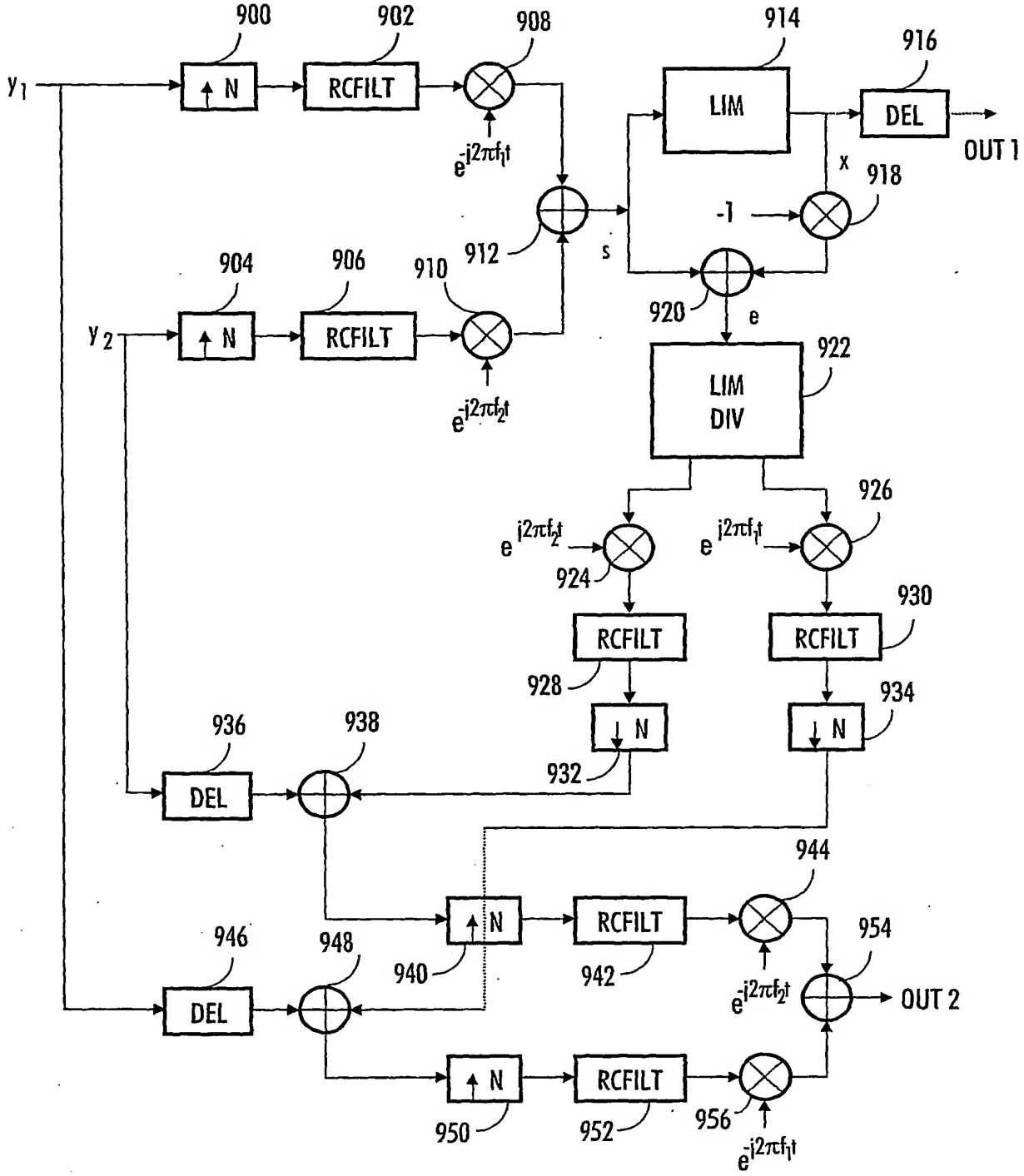

900
902
908
914
916
y_1
N
RCFILT
LIM
DEL
OUT 1
$e^{-i2\pi f_1 t}$
x
918
-1
912
s
904
906
910
920
y_2
N
RCFILT
e
922
LIM
DIV
$e^{-i2\pi f_2 t}$
926
$e^{i2\pi f_2 t}$
$e^{i2\pi f_1 t}$
924
930
RCFILT
RCFILT
928
934
N
N
936
938
932
DEL
944
N
RCFILT
946
948
954
940
942
DEL
$e^{-i2\pi f_2 t}$
OUT 2
N
RCFILT
950
952
956
$e^{-i2\pi f_1 t}$

Fig. 9